



## PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q93501

Kazuko YAMASHITA, et al.

Appln. No.: 10/595,146

Group Art Unit: Unknown

Confirmation No.: 3329

Examiner: Unknown

Filed: March 3, 2006

For:

LIQUID CHROMATOGRAPHY APPARATUS

## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 and 1.98

## MAIL STOP AMENDMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith.

- 1. "High Performance Liquid Chromatography Biochemical Applications, authored by P.R. Brown, translated jointly by Susumu Nishimura, Takao Sekiya and Hiroshi Kasai and published by TOKYO KAGAKU DOZIN Co., Ltd., (1979), pp. 21-25.
- "Liquid Chromatography in Biotechnology Field, Aggregate of General Resources of Industrialization Technology, edited by Kenji Soda and published by NIS Inc. (January 20, 1987), pp. 169-171.
- 3. EP 0 417 976 B1 published March 20, 1991, to Eisai Co., Ltd..

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INFORMATION DISCLOSURE STATEMENT

- 4. U.S. Patent Application No. 2003/0168392 A1, published September 11, 2003.
- 5. EP 1 202 054 B1 published May 2, 2002, to Bruker BioSpin GmbH.
- 6. U.S. Patent No. 6,498,040 B1 issued December 24, 2002.
- 7. Japanese Patent Application Laid-Open No. 2003-066020, published March 5, 2003, to Sumitomo Chemical Co., Ltd. with Abstract.
- 8. Y. Xia et al., "Ternary-column system for high-throughput direct-injection bioanalysis by liquid chromatography/tandem mass spectrometry", Rapid Communications in Mass Spectrometry, Vol. 14, (2000), pp. 105-111.
- 9. K. Yamashita et al., "Development of On-line Sample Enrichment System Coupled to EXI-TOFMS and Its Application", Chromatography, Journal of Separation and Detection Sciences, Vol. 22, (2001) with Abstract.
- 10. K. Yamashita et al., "Development of On-line Sample Enrichment System Coupled to EXI-TOFMS and Its Application", Abstract Book, HPLC KYOTO, September 11-14, 2001, PP. 96.
- 11. K. Yamashita et al., "Development of On-line Sample Enrichment System Coupled to EXI-TOFMS and Its Application Challenge to highly sensitive structural elucidation of impurities of agrochemicals and pharmaceuticals", SUMITOMO KAGAKU-SHI, (2002), pp. 56-64 with Abstract.
- 12. M. Okamoto et al., "Novel On-line Preparation System for LC-MS: Powerful tool for characterization of ppm level impurities under the nonvolatile mobile phase condition", Chromatography, Vol. 25, Supplement 1, (2004), pp. 31-33 with Abstract.
- 13. JP 7-5160 A, published January 10, 1995, to Mitsubishi Petrochemical Co., Limited. This reference was previously listed on an PTO/SB/08 A & B and has been considered by the Examiner.

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14. JP 4-221759 A, published August 12, 1992, to Shimadzu Corporation. This reference was

previously listed on an PTO/SB/08 A & B and has been considered by the Examiner.

The present Information Disclosure Statement is being filed: (1) No later than three months from

the application's filing date; (2) Before the mailing date of the first Office Action on the merits

(whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for

continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee

under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document

constitutes prior art against the claims of the present application. Applicant does not waive any right to

take any action that would be appropriate to antedate or otherwise remove any listed document as a

competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and

the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said

Deposit Account.

Respectfully submitted,

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WASHINGTON OFFICE

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CUSTOMER NUMBER

Date: March 23, 2006

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Substitute for Form 1449 A & B/PTO		Complete if Known		
		Application Number	10/595,146	
INFORMATION DISCLOS	SURTE 40,	Confirmation Number	3329	
STATEMENT BY APPLIC	'//CTA1' I'	Filing Date	March 3, 2006	
	23 700 M	First Named Inventor	Kazuko YAMASHITA	
(use as many sheets as necessa	(C) "NB 5"	Art Unit	Unknown	
	KI. 5	Examiner Name	Unknown	
Sheet 1 of	A Company of	Attorney Docket Number	Q93501	

U.S. PATENT DOCUMENTS						
Examiner Cite Initials* No.1	Document Number		Publication Date			
		Number	Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		US 2003/0168392	Al	09/11/2003	Masuda et al.	
		US 6,498,040	B1	12/24/2002	Yokoyama et al.	

FOREIGN PATENT DOCUMENTS								
	Cite	Foreign Patent Document		Publication Date	Name of Patentee or			
	No.1	Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation <sup>6</sup>	
		EP	0 417 976	B1	03/20/1991	Eisai Co., Ltd.		
		EP	1 202 054	B1	05/02/2002	Bruker BioSpin GmbH		
		JP	2003-66020	A	03/05/2003	Sumitomo Chemical Co., Ltd.	Abstract	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		"High Performance Liquid Chromatography Biochemical Applications, authored by	
		P.R. Brown, translated jointly by Susumu Nishimura, Takao Sekiya and Hiroshi	
		Kasai and published by TOKYO KAGAKU DOZIN Co., Ltd., (1979), pp. 21-25.	
		"Liquid Chromatography in Biotechnology Field, Aggregate of General Resources	
		of Industrialization Technology, edited by Kenji Soda and published by NIS Inc.	
		(January 20, 1987), pp. 169-171.	
		Y. Xia et al., "Ternary-column system for high-throughput direct-injection	
		bioanalysis by liquid chromatography/tandem mass spectrometry", Rapid	
		Communications in Mass Spectrometry, Vol. 14, (2000), pp. 105-111.	
		K. Yamashita et al., "Development of On-line Sample Enrichment System Coupled	
		to EXI-TOFMS and Its Application", Chromatography, Journal of Separation and	
		Detection Sciences, Vol. 22, (2001) with Abstract.	
		K. Yamashita et al., "Development of On-line Sample Enrichment System Coupled	
		to EXI-TOFMS and Its Application", Abstract Book, HPLC KYOTO, September 11-	
		14, 2001, PP. 96.	
		K. Yamashita et al., "Development of On-line Sample Enrichment System Coupled	
		to EXI-TOFMS and Its Application - Challenge to highly sensitive structural	
		elucidation of impurities of agrochemicals and pharmaceuticals", SUMITOMO	
		KAGAKU-SHI, (2002), pp. 56-64 with Abstract.	
		M. Okamoto et al., "Novel On-line Preparation System for LC-MS: Powerful tool for	
		characterization of ppm level impurities under the nonvolatile mobile phase	
		condition", Chromatography, Vol. 25, Supplement 1, (2004), pp. 31-33 with	,
		Abstract.	

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.